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## ABSTRACT OF THE DISCLOSURE

An object of the present invention is to provide an electromagnetic wave absorber which is excellent in the electromagnetic wave absorbing characteristics in the high frequency range above 1 GHz, and to provide a method of manufacturing the electromagnetic wave absorber and appliances using the electromagnetic wave absorber.

electromagnetic wave absorber and a composite accordance with the present invention in characterized by that magnetic metal grains are covered with ceramic above 20 volume \% . Further, a method of electromagnetic manufacturing the absorber and characterized composite member is by that composite magnetic particles, in which a plurality of magnetic metal grains and ceramic are unified, are formed through the mechanical alloying method of a composite powder composed of magnetic metal powder and ceramic powder.

Further, the present invention exists in semiconductor device, an optidal sending module, an optical receiving module, an optical sending and receiving module, an automatic tollgate preventing erroneous operation due to disturbance which the electromagnetic wave use electromagnetic wave absorber.